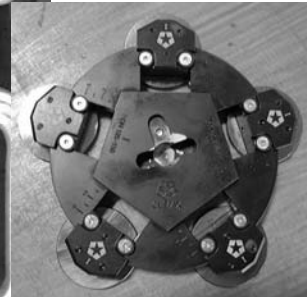
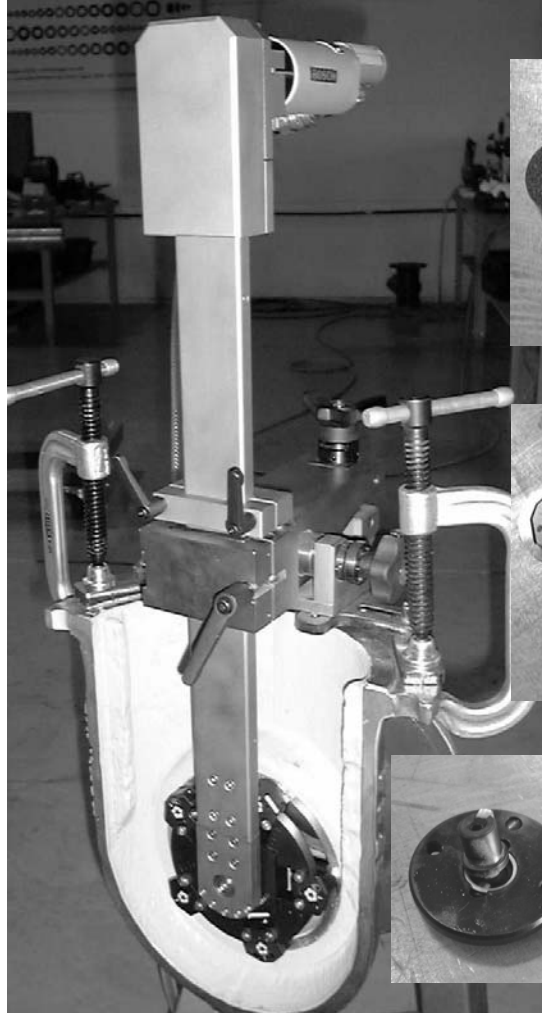


**Climax**  
**Gate Valve Grinding & Lapping Machines**  
**Model Numbers VM1150, VM1200**  
**Valve Seat Diameter Range: 1.25"-8.0" (32mm-200mm)**



**"On Site" grinding and lapping of  
gate valves**

**Easy to set up and handle**

**Powerful**

**Rigid design**

**High performance**



**CLIMAX<sup>®</sup>**

Portable Machine Tools, Inc.

**Climax Portable Machine Tools**

2712 E. Second St.

Newberg, OR 97132 USA

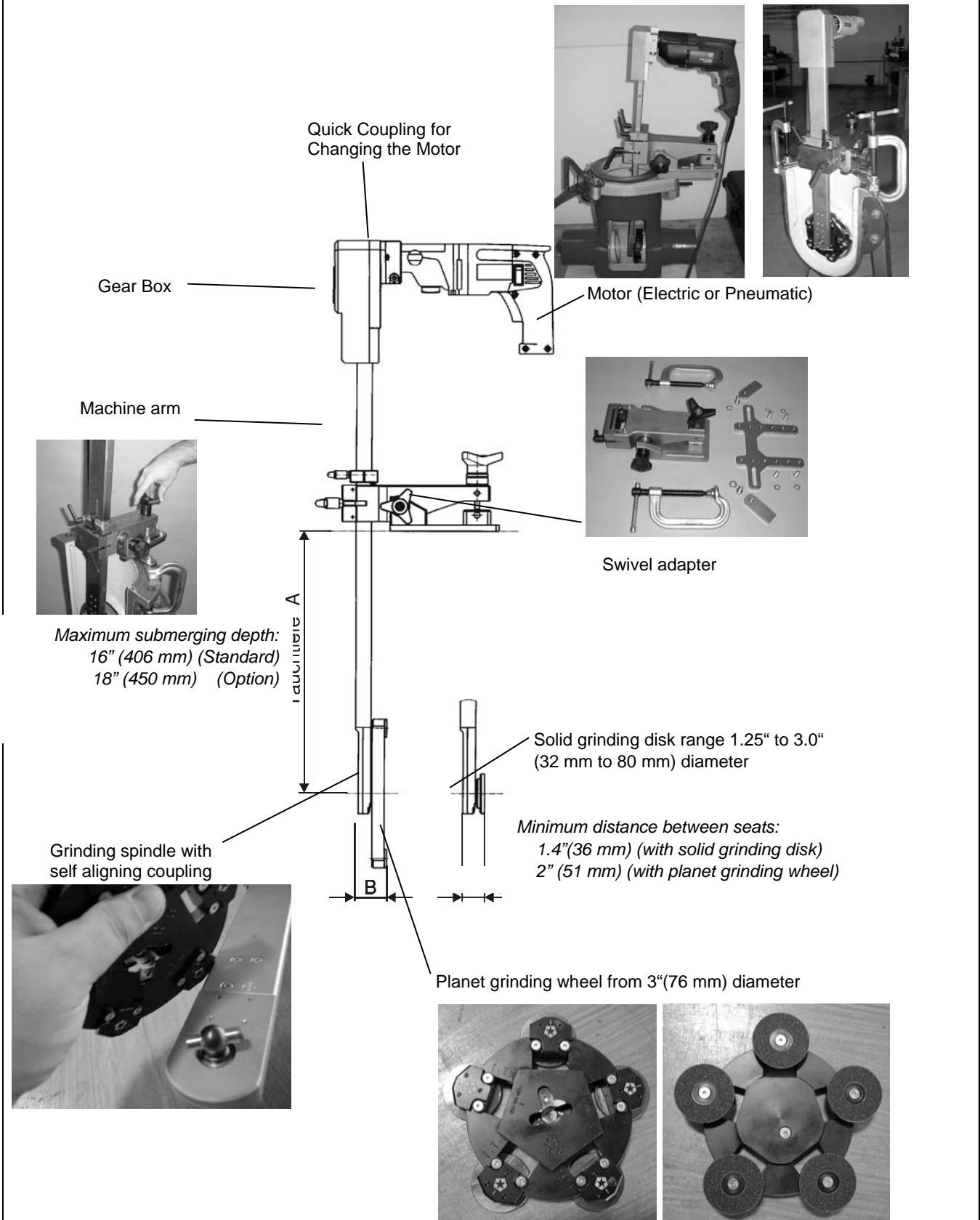
Telephone: 503-538-2185

North America Toll-Free: 800-333-8311

E-Mail: [info@cpmt.com](mailto:info@cpmt.com)

Internet: [www.cpmt.com](http://www.cpmt.com)

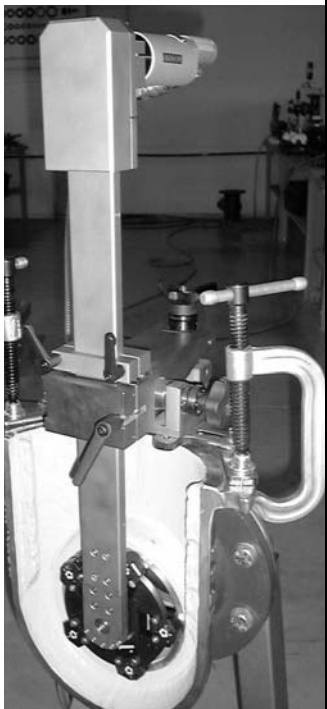
# Models VM1150, VM1200



<b>Technical Data</b>			
<b>Working range DN...</b>	<b>min</b>	<b>1.25"</b>	<b>32 mm</b>
	<b>max</b>	<b>8"</b>	<b>200 mm</b>
<b>Submerging depth</b>	<b>max</b>	<b>16"</b>	<b>400 mm</b>
	<b>optional</b>	<b>18"</b>	<b>450 mm</b>
<b>Power</b>	electric	<b>0.75 HP(0.55 kW)</b>	
	pneumatic	<b>0.75 HP(0.55 kW)</b>	
<b>Variable Spindle Speed</b>	electric	<b>100 ... 550 Rev/min</b>	
	pneumatic	<b>100 ... 650 Rev/min</b>	
<b>Spindle Torque</b>	permanent	<b>5.3 ft-lbs (7.2 Nm)</b>	
	max	<b>29.5 ft-lbs (40.0 Nm)</b>	

<b>Weight</b>		
<b>Machine VM1150</b>		
<b>Basic machine without tooling</b>	<b>11 lbs</b>	<b>5 kg</b>
<b>Machine case</b>	<b>84 lbs</b>	<b>38 kg</b>
<b>Machine VM1200</b>		
<b>Basic machine without tooling</b>	<b>11 lbs</b>	<b>5 kg</b>
<b>Machine case</b>	<b>86 lbs</b>	<b>39 kg</b>

**Model VM1150 (Range: 1.25"-6.0" (32 mm-150 mm) Diameter**

P/N	Description
	<p><b>Gate Valve Grinder VM1150S</b>                      Nominal working diameter 1.25" to 6" (32 mm to 150 mm)                      Submerging depth 16" (400 mm).                      Included Components::</p> <ul style="list-style-type: none"> <li>• 7 piece solid grinding disk set 2.0"(50 mm), 2.2"(55 mm), 2.4"(60 mm), 2.6"(65 mm), 2.9" (73 mm), 3.2"(80 mm) and 3.4"(85 mm) diameters.</li> <li>• 1 set (5) of planet arms 1.2"(30 mm) in length.</li> <li>• Set of 2 planet wheels 3.9"(100 mm), 5.3" (135 mm) diameters.</li> <li>• 1 set (5) of grinding discs 2.0"(50 mm) diameter.</li> <li>• 1 set of clamping equipment for mounting the machine on valves with and without top flange.</li> <li>• Start up set of abrasives grain 100 and 500.</li> <li>• 1 set of tooling.</li> <li>• Carrying cases with foam inlet for the machine and the accessories.</li> </ul> <p><b>420-00S-S12 VM1150S with electric motor 230 V / 50 Hz</b>  <b>420-00S-S13 VM1150S with pneumatic motor</b>  <b>420-00S-S15 VM1150S with electric motor 115 V / 60 Hz</b></p>
	<p><b>Gate Valve Grinding and Lapping machine VM1150</b>                      Machine like VM1150S but with <b>additional lapping equipment</b>.</p> <ul style="list-style-type: none"> <li>• Set of 3 solid lapping disks 2.2"(55 mm), 2.6"(65 mm), 3.2"(80 mm) diameters</li> <li>• 2 sets of lapping disks 1.2"(30 mm) and 2.0"(50 mm) diameters.</li> <li>• Lapping paste 10 and 30 µm.</li> </ul> <p><b>420-00S-S02 VM1150 with electric motor 230 V / 50 Hz</b>  <b>420-00S-S03 VM1150 with pneumatic motor</b>  <b>420-00S-S05 VM1150 with electric motor 115 V / 60 Hz</b></p>




**VM1150S with electric motor**



**VM1150S with pneumatic motor**  
*(standard scope of supply does not include maintenance unit)*

**Model VM1200 (Range: 1.25"-8.0" (32 mm-200 mm) Diameter**

P/N	Description	
	<p><b>Gate Valve Grinder VM1200S</b>                      Nominal working dia 1.25" to 8" (32 mm to 200 mm)                      Submerging depth 16"(400 mm).                      Included Components:</p> <ul style="list-style-type: none"> <li>• 7 piece solid grinding disk set 2.0"(50 mm), 2.2"(55 mm), 2.4"(60 mm), 2.6"(65 mm), 2.9" (73 mm), 3.2"(80 mm) and 3.4"(85 mm) diameters.</li> <li>• Set of 2 planet arms 1.2"(30 mm) and 2.6"(65 mm) in length.</li> <li>• Set of 2 planet wheels 3.9"(100 mm), 5.3" (135 mm) diameters.</li> <li>• 1 set of grinding discs 2.0"(50 mm) diameter</li> <li>• 1 set of clamping equipment for mounting the machine on valves with and without top flange.</li> <li>• Start up set of abrasives grain 100 and 500.</li> <li>• 1 set of tooling.</li> <li>• Carrying cases with foam inlet for the machine and the accessories.</li> </ul> <p><b>420-00S-S32 VM1200S with electric motor 230 V / 50 Hz</b>  <b>420-00S-S33 VM1200S with pneumatic motor</b>  <b>420-00S-S35 VM1200S with electric motor 115 V / 60 Hz</b></p>	
	<p><b>Gate Valve Grinding and Lapping machine VM1200</b>                      Machine like VM1200S but with <b>additional lapping equipment</b>.</p> <ul style="list-style-type: none"> <li>• Set of 3 solid lapping disks 2.2"(55 mm), 2.6"(65 mm), 3.2"(80 mm) diameters</li> <li>• 2 sets of lapping disks 1.2"(30 mm) and 2.0"(50 mm) diameters.</li> <li>• Lapping paste 10 and 30 µm.</li> </ul> <p><b>420-00S-S22 VM1200 with electric motor 230 V / 50 Hz</b>  <b>420-00S-S23 VM1200 with pneumatic motor</b>  <b>420-00S-S25 VM1200 with electric motor 115 V / 60 Hz</b></p>	

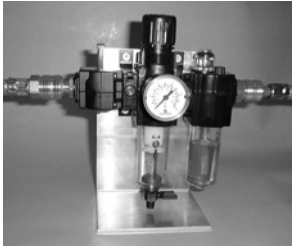
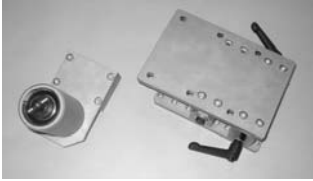
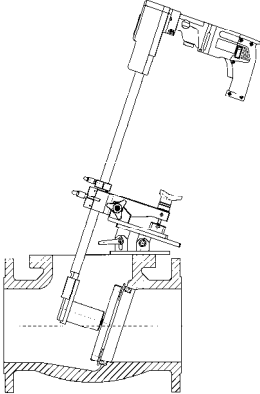
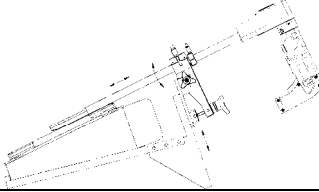

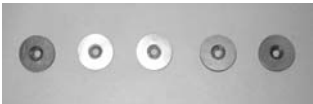
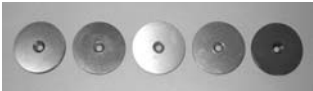


**VM1200S with electric motor**






**VM1200S with pneumatic motor**  
*(standard kit does not include pneumatic maintenance unit)*

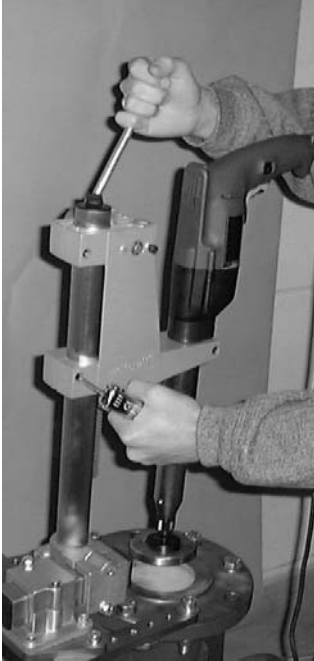
## Accessories

	P/N	Description	
	<b>240-13K-001</b>	<p><b>Maintenance unit for pneumatic motor</b>  <b>Required for machines with pneumatic motor.</b>                      The maintenance unit is <b>not</b> included in the standard scope of supply with pneumatic driven machines.                      Includes:</p> <ul style="list-style-type: none"> <li>• filter</li> <li>• oiler</li> <li>• pressure gauge</li> <li>• speed controller</li> </ul>	
  	<b>420-00S-L03</b>	<p><b>Swing Check accessories</b>                      For grinding of swing check valves.                      Includes:</p> <ul style="list-style-type: none"> <li>• Swivel adapter for adaption of the machine on the valve</li> <li>• Spindle extension for reaching the seat with the planet wheels.</li> </ul>	
	<b>420-56S-N01</b>	<p><b>Fixture for gate wedges</b>                      For grinding of gate wedges "on site" with the VM machines.</p>	
		<p><b>Extension of submerging depth</b>                      Extension of submerging depth without changing the max. grinding diameter  <b>(Must be ordered with the machine. Can not be ordered after delivery of the machine.</b>                      e.g... 420-00S-S05-M01)</p>	
	<b>-M01</b>	<p><b>Extension of submerging depth from 16" to 18" (400 mm to 450 mm)</b></p> <ul style="list-style-type: none"> <li>• Extension of the machine arm.</li> <li>• Adaption of the machine case.</li> </ul>	
	<b>110-33S-N01</b>	<p><b>CBN grinding disk 2"(50 mm) diameter (each)</b>  <b>(A total of five required)</b>                      Required for rough grinding of heavily damaged seats  <b>(not included in the component package).</b></p>	
	<b>110-41S-N01</b>	<p><b>Lapping disk 1.2"(30 mm) diameter (each)</b>  <b>(A total of five required)</b></p>	
	<b>110-42S-N01</b>	<p><b>Lapping disk 2"(50 mm) diameter (each)</b>  <b>(A total of five required)</b></p>	

## Accessories

	P/N	Description	
		<p><b>Grinding adapter</b> For using the tooling of the VM1150(S) on stationary drill presses. The grinding pressure is made by an application of springs. The scale for the grinding pressure is divided into two ranges: One for high rate of removal of material and the other for high precision surfaces.</p>	
	<b>185-00S-S22</b>	<p><b>Grinding adapter MT2</b> For using on stationary drill presses with morse taper #2.</p>	
	<b>185-00S-S23</b>	<p><b>Grinding adapter MT3</b> For using on stationary drill presses with morse taper #3.</p>	
		<p><b>Planet Arms 3 degrees</b> The spindles of these arms are designed with a 3 degree offset. These arms are made to rework the 3 degree relief angle in gate valves</p>	
	<b>110-51S-N01</b>	<p><b>Planet arm #II 3 degrees (2.4"(60 mm) length) (each)</b> <b>(A total of five required)</b> Outside grinding diameter 6.3"-13.0"(160-330 mm) (diameter depends on selected planet wheel)</p>	
	<b>110-52S-N01</b>	<p><b>Planet arm #III 3 degrees (4.5"(115 mm) length) (each)</b> <b>(A total of five required)</b> Outside grinding diameter 13.0"-21.7"(330-550 mm) (diameter depends on selected planet wheel)</p>	
	<b>110-50S-L01</b>	<p><b>3 degree Planet Arm Set</b> Includes :</p> <ul style="list-style-type: none"> <li>• Planet arm #II 3 degree (5 pieces)</li> <li>• Planet arm #III 3 degree (5 pieces)</li> </ul>	
		<p><b>Planet Arms 5 degree</b> The spindles of these arms are designed with a 5 degree offset. These arms are made to rework the 5 degree relief angle in gate valves</p>	
	<b>110-61S-N01</b>	<p><b>Planet arm #II 5 degrees (2.4"(60 mm) length) (each)</b> <b>(A total of five required)</b> Outside grinding diameter 6.3"-13.0"(160-330 mm) (diameter depends on selected planet wheel)</p>	
	<b>110-62S-N01</b>	<p><b>Planet arm #III 5 degrees (4.5"(115 mm) length) (each)</b> <b>(A total of five required)</b> Outside grinding diameter 13.0"-21.7"(330-550 mm) (diameter depends on selected planet wheel)</p>	
	<b>110-60S-L01</b>	<p><b>5 degree Planet Arm Set</b> Includes :</p> <ul style="list-style-type: none"> <li>• Planet arm #II 5 degree (5 pieces)</li> <li>• Planet arm #III 5 degree (5 pieces)</li> </ul>	

## Accessories

	P/N	Description	
		<p><b>Globe Valve Extension Kit</b></p> <p>The extension kit comes with a complete machine arm including the drive motor and a mounting column. It uses the tooling of the VM1150/1200.</p> <p>Included Components:</p> <ul style="list-style-type: none"> <li>• One pieces of ball joint coupling size 10 and 15 each.</li> <li>• Integrated grinding pressure detection with a scale.</li> <li>• Mounting column with mounting plate for valves with and without flange.</li> <li>• Carrying cases with foam inlet for the machine and the accessories.</li> </ul>	
	220-00S-L12	VM1150S with electric motor 230 V / 50 Hz	
	220-00S-L13	VM1150S with pneumatic motor	
	220-00S-L15	VM1150S with electric motor 115 V / 60 Hz	



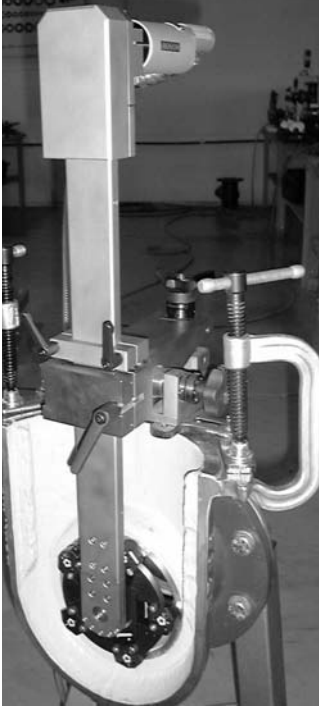
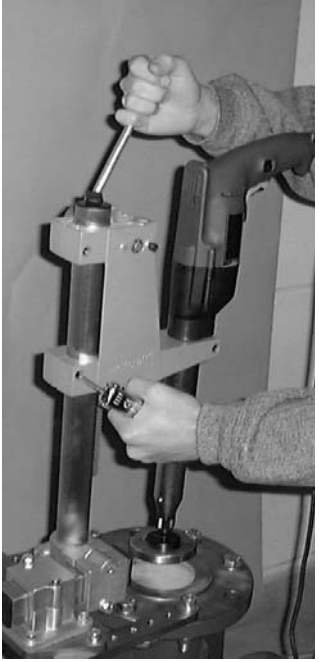
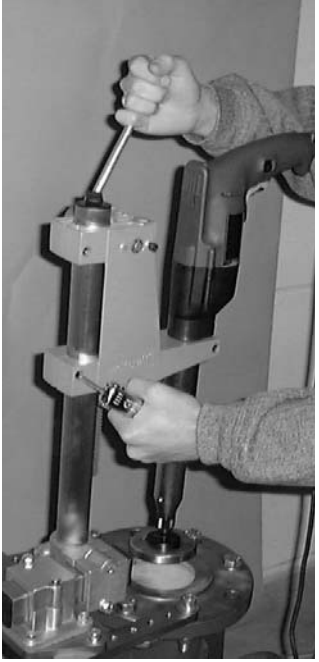
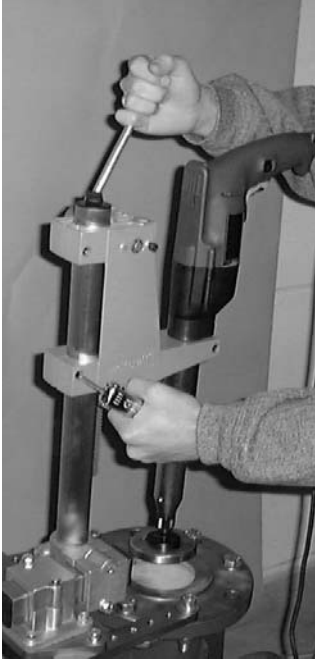
**Globe valve extension kit with electric motor**



**Globe valve extension kit with pneumatic motor  
(standard kit does not include maintenance unit)**



## TWIN Machines for Gate and Globe Valves (Range: 1.25"-8.0" (32 mm-200 mm) Diameter)

	P/N	Description	
		<b>Gate Valve Grinder VM1150ST</b> <ul style="list-style-type: none"> <li>Includes The VM1150S and the Globe valve conversion</li> </ul>	
	420-00S-T12	VM1150ST with electric motor 230 V / 50 Hz	
	420-00S-T13	VM1150ST with pneumatic motor	
	420-00S-T15	VM1150ST with electric motor 115 V / 60 Hz	
		<b>Gate Valve Grinding and Lapping machine VM1150T</b> <ul style="list-style-type: none"> <li>Includes The VM1150 and the Globe valve conversion</li> </ul>	
	420-00S-T02	VM1150T with electric motor 230 V / 50 Hz	
	420-00S-T03	VM1150T with pneumatic motor	
	420-00S-T05	VM1150T with electric motor 115 V / 60 Hz	
		<b>Gate Valve Grinder VM1200ST</b> <ul style="list-style-type: none"> <li>Includes The VM1200S and the Globe valve conversion</li> </ul>	
	420-00S-T32	VM1200ST with electric motor 230 V / 50 Hz	
	420-00S-T33	VM1200ST with pneumatic motor	
	420-00S-T35	VM1200ST with electric motor 115 V / 60 Hz	
		<b>Gate Valve Grinding an Lapping machine VM1200T</b> <ul style="list-style-type: none"> <li>Includes The VM1200 and the Globe valve conversion</li> </ul>	
	420-00S-T22	VM1200T with electric motor 230 V / 50 Hz	
	420-00S-T23	VM1200T with pneumatic motor	
	420-00S-T25	VM1200T with electric motor 115 V / 60 Hz	

Because CLIMAX is committed to product improvement, the machine you receive may be slightly different to the pictures above.